

May 21, 1952

Dear Dr. Kauffmann:

We have been proceeding with our study of the Salmonella O-forms you sent to us a few weeks ago. With very intense selection, it is possible to obtain H-forms again from almost all of the O-forms we have studied, including the typhi O-901. But many cultures are stable enough that we can test the effect of the S. typhimurium "FA" in ~~restoring~~ restoring motility.

The results with paratyphi B, Nr. 248 = O 19 have been especially interesting, and I wish to ask whether you can give us any further information on its history. In particular, if the original motile culture from it arose is available, we would be very interested to have it. OTHERWISE, we should like to know especially whether it was originally b--1,2 or the var. java, b--. By treatment with typhimurium FA, we have obtained only monophasic motile forms in phase 1, usually, b--.

A further perplexity is that a phase resembling i-- has also appeared. At first we ascribed this to the i factor of the typhimurium "FA", but in one experiment the Nr. 248 culture may have produced this phase by itself. Is there anything in the history of this culture, or known cross-reactions with i reagent that would give us a clue?

Yours sincerely,

Joshua Lederberg